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DUNLAP, CODDING & ROGERS, P.C. Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

### **TRANSMITTAL FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

10/697,461 **Application Number** 10/30/2003 Filing Date Martin A. Cotton **First Named Inventor** Group Art Unit 2829 (Conf. No. 7982) K. Cuneo **Examiner Name** 8245.061 Attorney Docket Number

06/25/2004

**M** Date

		ENCLO	SURES(check	call that apply)			
X Fee Transmittal For	m	Assignmen (for an App	t Papers lication)	After Allowance Communication to Group			
Fee Attache	Fee Attached			Appeal Communication to Board of Appeals and Interferences			
Amendment / Repl	у	Licensing-r	elated Papers	Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)			
After Final		Petition		Proprietary Information			
Affidavits/de	eclaration(s)		Convert to a Application	Status Letter			
Extension of Time F	Request	Power of Attorney, Revocation Change of Correspondence Address		Other Enclosure(s) (please identify below):			
Express Abandonn	Express Abandonment Request		isclaimer r Refund	See remarks below:			
X Information Disclosure Statement			er of CD(s)				
Certified Copy of Pocument(s)	riority	Remarks					
Response to Missin	•	Transmittal (1 page);     Fee Transmittal (1 page) authorizing withdrawal from Deposit Account should any fees be required;					
Incomplete Applica	o Missing Parts	Supplemental Information Disclosure Statement (5 pages);     Supplemental Form PTO-1449 (2 pages);					
	FR 1.52 or 1.53	Copies of cited material; and     Return Receipt Postcard.					
	CIONATI	IDE OF ABBUILDA	NT ATTORNEY OR	ACENT			
F:			NT, ATTORNEY, OR	<del>-</del>			
Firm DUNLAP, CODDING & ROGERS, P.C., Customer Number 30589							
Individual name P. O. Box 16370, Oklahoma City, Oklahoma 73113; Christopher W. Corbett							
Signature Quality Chall							
Date	Date (6/25/0)+						
	1 1	CERTIFICAT	E OF MAILING				

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail or U.S. Express

opher W. Corbett, Reg. No. 36,109

SEND TO: Commissioner for Patents P.O. Box 1450

Alexandria, VA 22313-1450

in an envelope addressed to the address below on this date:

#### APPROVED

Express Mail No.: - Date Deposited:

Signature

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06/25/2004

Applicant claims small entity status. See 37 CFR 1.27

(\$) 0

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ACCOUNT#94-1700

Attorney Docket No.

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

EE TRANSMITTAI Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

Complete if Known 10/697.461 **Application Number** 10/30/2003 Filing Date Martin A. Cotton First Named Inventor K. Cuneo **Examiner Name** 2829 Art Unit 8245.061

Date

06/25/2004

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)					
Check Credit card Money Other None	3. AD	DITI	ONA	L FEE	S	
Deposit Account:	Large E					
Domesit		Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
Account Number	1051	130	2051	65	Surcharge - late filing fee or oath	
Deposit Dunlap, Codding & Rogers, P.C.	1052	50	2052	25	Surcharge - late provisional filing fee or	
Name Customer No. 30369	1053	130	1053	130	cover sheet Non-English specification	
The Commissioner is authorized to: (check all that apply)  Charge fee(s) indicated below  Credit any overpayments	1812 2		1812		For filing a request for ex parte reexamination	
Charge fee(s) indicated below Credit any overpayments Charge any additional fee(s) during the pendency of this application	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
Charge fee(s) indicated below, except for the filing feether	1805 1	1,840*	1805	1,840*	Requesting publication of SIR after	
to the above-identified deposit account.	1251	440	2251	55	Examiner action	
FEE CALCULATION	1251	110 420	2251		Extension for reply within first month  Extension for reply within second month	
1. BASIC FILING FEE	1252	950	2252		Extension for reply within third month	
Large Entity Small Entity  Fee Fee Fee Fee Fee Paid  Fee Paid	1254 1		2254		Extension for reply within fourth month	
Code (\$) Code (\$)	1255 2	•		1,005	Extension for reply within fifth month	
1001 770   2001 385   Utility filing fee	1401	330	2401	•	Notice of Appeal	
1003 530 2003 265 Plant filing fee	1402	330	2402		Filing a brief in support of an appeal	
1004 770 2004 385 Reissue filing fee	1403	290	2403		Request for oral hearing	
1005 160 2005 80 Provisional filing fee	1451 1	1,510	1451	1,510	Petition to institute a public use proceeding	
SUBTOTAL (1) (\$) 0	1452	110	2452	55	Petition to revive - unavoidable	
	1453 1	1,330	2453	665	Petition to revive - unintentional	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE Fee from	1501 1	1,330	2501	665	Utility issue fee (or reissue)	
Extra Claims below Fee Paid  Total Claims X = \$0		480	2502		Design issue fee	
Independent		640	2503	320	Plant issue fee	<u> </u>
Claims	1460	130	1460	130	Petitions to the Commissioner	
Large Entity   Small Entity	1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	<u> </u>
Fee Fee Fee Fee Description		180	1806	180	Submission of Information Disclosure Stmt Recording each patent assignment per	
Code (\$)   Code (\$)   1202   18   2202   9   Claims in excess of 20	8021	40	8021	40	property (times number of properties)	
1201 86 2201 43 Independent claims in excess of 3	1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1203 290 2203 145 Multiple dependent claim, if not paid	1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))	
1204 86 2204 43 ** Reissue independent claims over original patent	1801	770	2801	385	Request for Continued Examination (RCE)	
1205 18 2205 9 ** Reissue claims in excess of 20		900	1802	900	Request for expedited examination	
and over original patent	Other fo	ee (sn	ecify)		of a design application	
SUBTOTAL (2) (\$) 0				Filing F	ee Paid SUBTOTAL (3) (\$) 0	
Tor number previously paid, if greater; For Reissues, see above						
SUBMITTED BY	X R.	adiktra	tion No		(Complete (if applicable)	000
Name (Print/Type) Shriptonher W. Corkett 2 Registration No. 36 109 Telephone (405) 607-8600						

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450 EXPRESS MAIL NO.: EV447408734US

Deposited On: June 25, 2004

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/697,461 Confirmation No.: 7982

Applicant(s) : Martin A. Cotton

Filed : 10/30/2003

TC/A.U. : 2829

**Examiner**: K. Cuneo

Title : NON-CIRCULAR MICOR-VIA

Docket No. : 8245.061

Customer No. : 30589

Commissioner for Patents P.O. Box 1450

Alexandria, VA 22313-1450

#### SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

### List of Sections Forming Part of This Information Disclosure Statement

The following sections are being submitted for this Information Disclosure Statement:

### 1.[X]Preliminary Statements

- 2. [X] FORM PTO-1449 (Modified)
- 3. [X] Statement as to Information Not Found in Patents or Publications
- 4. [] Identification of Prior Application in Which Listed Information Was Already Cited and for Which No Copies Are Submitted or Need Be Submitted
- 5. [] Cumulative Patents or Publications

- 6. [X] Copies of Listed Information Items Accompanying this Statement
- 7. [] Concise Explanation of Non-English Language Listed Information Items
  - 7A. [] EPO Search Report
  - 7B. [] English Language Version
- 8. [] Translation(s) of Non-English Language Documents
- 9. [] Concise Explanation of English Language Listed Information Items (Optional)
- 10. [X] Identification of Person(s) Making this Information Disclosure Statement

#### **Section 1.** Preliminary Statements

Applicants submit herewith patents, publications or other information of which they are aware, which they believe may be material to the examination of this application and in respect of which there may be a duty to disclose.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

### Section 2. Form PTO-1449 (Modified)

- [X] A completed Form 1449 (Modified) is attached hereto.
- [ ] No Form 1449 (Modified) is attached.

### Section 3. Statement as to Information Not Found in Patents or Publications (Information Not Listed in Form PTO-1449)

The present invention relates generally to a method of mineralizing air contaminants by oxidation, and more particularly, but not by way of limitation, to an improved method of removing contaminants from an air stream by passing the air stream through an ultra-low density, UV-accessible aerogel photocatalyst.

## Section 4. Identification of Prior Application in Which Listed Information Was Already Cited and for Which No Copies Are Submitted or Need Be Submitted

	application relies, under 35 U.S.C. § 120, on the earlier filing date olication Serial No, filed on (date).						
	(complete the following, if applicable)						
[]	This application also relies, under 35 U.S.C. 120, on the earlier filing date of prior application Serial No, filed on (date).						
	following references were submitted to, and/or cited by, the Office application(s) and therefore, are not required to be provided in this:						
Section 5.	Cumulative Patents or Publications						
	STATEMENT						
Form PTO-	$\underline{}$ is cumulative of the following patents or publications listed on 1449:						
	nce with 37 C.F.R. § 1.98(c), a copy of only is being submitted iformation Disclosure Statement.						
	·						

### Section 6. Copies of Listed Information Items Accompanying this Statement

Legible copies of all items listed in Form PTO-1449 (Modified) accompany this information disclosure statement.

	[]	Excep	otion(s	s) to abo	ve:						
		[]		Items in prior application from which an earlier filing date is claimed for this application, as identified in Section 4.							
		[]	Cumi	ılative pa	atents	or p	ublicatior	ns ident	ified in	Section	on 5.
Sect	ion 7.			Explana on Item		of	Non-En	glish	Langı	ıage l	Listed
Sect	ion 7/	۹.		_			of Non-E PO Sear	_	_	uage I	Listed
1449		elevar	nce wit	th respec	t to th	e fol	lowing cit	tations	listed o	n Forn	n PTO-
is su	bmitte	d on t	he bas	sis of acc	ompar	nying	g:				
				(check	the ap	prop	oriate iter	n)			
	[]	EPO s	search	report t	hat is	in th	e English	langua	age,		
	[]	EPO search report that is not in the English language and that is accompanied also by an English language version of the EPO search report,									
that	issued	on the	e corre	espondin	g Euro	pea	n patent	applica	tion.		
Sect	ion 71	3.	Info	-	Item		of Non-E inglish L	_		_	
Sect	ion 8.	Tran	slatio	n(s) of	Non-E	Engli	ish Lang	uage l	Docum	ents	

### section of Translation(s) of Non-English Language Documents

[] Submitted herewith is an English translation of the following foreign language patents, publications or information or of those portions of those patents, publications or information considered to be material:

#### (complete the following, if applicable)

- [ ] No English language translations of the foreign language parents, publications or information or parts thereof are readily available, except for those listed above.
- [ ] The following foreign language documents submitted are believed to be the equivalent or substantial equivalent of the English language documents identified below, which are also submitted herewith.

### Section 9. Concise Explanation of English Language Listed Information Items (OPTIONAL)

### Section 10. Identification of Person(s) Making this INFORMATION DISCLOSURE STATEMENT

The person making this statement is the attorney who signs below on the basis of the information:

- [] supplied by the inventor(s)
- [] supplied by an individual associated with the filing and prosecution of this application (37 C.F.R. § 1.56(c)).
- [X] in the attorney's file
- [] provided in the International Search Report cited herein

Respectfully submitted,

Christopher W. Corbett, Reg. No. 36,109

DUNLAP, CODDING & ROGERS, P.C.

P.O. Box 16370

Oklahoma City, Oklahoma 73113

(405) 607-8600 - telephone

(405) 607-8686 - telefax

Agent for Applicant

Express Mail: EV447408734US Date Deposited: 06/25/2004

Substitute for form 1449A/PTO

# SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

JUN 2 5 2004 (C)

(use many sheets as necessary)

Complete if Known					
Application Number	10/697,461				
Filing Date	10/30/2003				
First Named Inventor	Martin A. Cotton				
Group Art Unit	2829 (Conf. No. 7982)				
Examiner Name	K. Cuneo				
Attorney Docket Number	8245.061				

	U. S. PATENT DOCUMENTS							
EXAM INIT.	Cite No. 1	U.S. PATENT NUMBER Number	Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM- DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
		3799802		Schneble, Jr., et al.	03/26/1974			
		5347086		Potter et al.	09/13/1994			
		5414222		Sen et al.	05/09/1995			
		5442144		Chen et al.	08/15/1995			
		5426399		Matsubayashi et al.	06/20/1995			
		5522132		Mattei	06/04/1996			
		5724727		Chopra et al.	03/10/1998			
		5734560		Kamperman et al.	03/31/1998	<u> </u>		
		6486394		Schmidt et al.	11/26/2002			

	FOREIGN PATENT DOCUMENTS							
EXAM INIT.	Cite No. 1	Foreign Patent Document  Kind Code5		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Lines, Where Relevant Passages or Relevant Figures Appear		
<u> </u>		Office 3	Number 4	(if known)				_

U.S. and Foreign: 'Unique citation designation number. 'See attached Kinds of U.S. Patent Documents.' Enter Office that issued the document, by the two-letter code (WIPO Standard St.3). 'Form Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 'Kind of document by the appropriate symbols as indicated on the document under WIPO Standard St. 16 if possible. 'Applicant is to place a check mark here if English language Translation is attached.

Page	2	of	2.
_ 496		$\sim$ $\pm$	

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EXAM INIT.		PATENT DOCUMENTS							
OLF		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published							
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rallen									
Non Pate	ent Docum	ents: <sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.							
Examiner	Examiner Signature: Date Considered:								
		citation considered, whether or not citation is in conformance and not considered. Include copy of this form with next communication to applicant. **Place of name of publication in which the information was published.							

8245.061 Sup Form 1449.wpd